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(54) Titre : COMPOSITION TERMICIDE SYNERGIQUE A BASE DE PYRETHROIDE ET DE N-PHENYL-PYRAZOLE  
(54) Title: SYNERGISTIC TERMITICIDAL COMPOSITION OF PYRETHROID AND N-PHENYL-PYRAZOLE

(57) Abrégé/Abstract:

A termite control composition for soil treatment containing 3-cyano-1-(substituted phenyl) pyrazole derivative and a pyrethroid compound as effective ingredients, and a method of controlling pests such as termites using said composition. The termite control composition is improved for soil treatment as well as for the ability to prevent termites from passing through the pesticidally treated layer.

SYNERGISTIC TERMITICIDAL COMPOSITION OF PYRETHROID  
AND N-PHENYL-PYRAZOLE

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5 The present invention relates to a termite control composition for soil treatment containing a 3-cyano-1-(substituted phenyl)-pyrazole derivative and a pyrethroid compound as effective ingredients.

The pyrazoles derivatives as effective ingredients of the termite control composition of the present invention are known compounds described in European patent application 295117 as well as in international patent 10 applications WO 93/6089 and 94/21606, which disclose that the compounds have a pesticidal effect on arthropods, vegetable nematodes, protozoan pests, and other pests. Many other pesticidal compounds can be used in combination with N-phenyl pyrazole derivatives. Pyrethroid compounds such as cyfluthrin, cypermethrin, deltamethrin, fenpropathrin, fenvalerate, and permethrin are 15 recited among many possibilities without any reference to any specific effect in any conditions.

A first object of the instant invention is to provide synergistic compositions of 3-cyano-1-(substituted phenyl)-pyrazole derivative.

20 Another object of the instant invention is to provide specific compositions which have an improved activity against pests, especially against insects.

Another object of the instant invention is to provide specific compositions which have an improved activity against termites.

25 There are mainly two types of termite control methods : namely, wood application by applying a control agent to wood, and soil treatment by spraying a control agent on the soil and/or under the floor. For existing houses, since the application of the agent to wood is rather difficult, soil treatment is generally used. In many cases, however, termites pass through the treated layer and eat the wood, and, therefore, it is desired to develop a termite control agent which has both the termite control effect and the ability to prevent termites from 30 passing through the pesticidally treated layer.

A further object of the instant invention is to provide a novel termite control composition (preferably for soil treatment) which has a strong termite control effect as well as the ability to prevent termites from passing through the pesticidally treated layer.

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It has been found that these goals may be reached by mean of the compositions of the instant invention.

The compositions of the present invention comprise, as effective ingredients, a pyrethroid compound and a compound of formula (I)

5 1-[4-R<sup>1</sup> 2,6-(R<sup>2</sup>)<sub>p</sub> phenyl] 3-cyano 4-[R<sup>4</sup>-S(O)<sub>n</sub>] 5-R<sup>5</sup> pyrazole (I)

wherein :

R<sup>1</sup> is halogen, lower haloalkyl, lower haloalkoxy or SF<sub>5</sub> (lower being an integer from 1 to 4, preferably one),

R<sup>2</sup> is halogen, the various R<sup>2</sup> being identical or different,

10 R<sup>4</sup> is halogen, lower alkyl or haloalkyl,

R<sup>5</sup> is halogen, lower alkyl or amino,

n is 0 or 1 or 2; p is 1 or 2 or 3 or 4, preferably 2.

Halo before the name of a radical means that this radical may be substituted by one or more halogen atoms.

15 A preferred compound of formula (I) is 5-amino-3-cyano-1-(2,6-dichloro-4-trifluoromethylphenyl)-4-trifluoromethylsulphanyl pyrazole.

The compositions of the invention comprise a synergistically amount of active ingredients.

20 Pyrethroid compounds which can be used in the present invention include all kind of pyrethroids, especially pyrethroids other than cyfluthrin, cypermethrin, deltamethrin, fenpropathrin, fenvalerate, and permethrin. Advantageously, pyrethroids which can be used in the invention are compounds selected from a group consisting of the following pyrethroid compounds, even though not limited to these pyrethroid compounds:

25 1. Allethrin [dl-3-allyl-2-methyl-4-oxo-2-cyclopentenyl-dl- cis, trans-chrysanthemate]

2. Ethofenprox [2-(4-ethoxyphenyl)-2-methylpropyl-3-phenoxybenzyl ether]

3. Cycloprothrin [(RS)-a-cyano-3-phenoxybenzyl (RS)-2,2- dichloro-1-(4-ethoxyphenyl)-cyclopropane carboxylate]

30 4. Cyhalothrin [(RS)-a-cyano-3-phenoxybenzyl (Z)-(1RS, 3RS) 3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethyl- cyclopropane carboxylate]

5. Cyfluthrin [(RS)-a-cyano-4-fluoro-3-phenoxybenzyl (1RS, 3RS)-(1RS, 3RS)-3-(2,2-dichlorovinyl)-2,2-dimethyl cyclopropane carboxylate]

6. Cypermethrin [(RS)-a-cyano-3-phenoxybenzyl (1RS, 3RS)-(1RS,3SR)-3-(2,2-dichlorovinyl)-2,2-dimethyl cyclopropane carboxylate]

7. Pyrethrin

8. Tralomethrin [(S)-a-cyano-3-phenoxybenzyl (1R, 3S)-2,2-dimethyl-3-(1,2,2,2-tetrabromoethyl)-cyclopropane carboxylate]

9. Fenvalerate [(RS)-a-cyano-3-phenoxybenzyl (RS)-2-(4-chlorophenyl)-3-methylbutanoate]

10. Fenpropothrin [(RS)-a-cyano-3-phenoxybenzyl-2,2,3,3-tetramethyl cyclopropane carboxylate]

11. Fluicythrinate [(RS)-a-cyano-3-phenoxybenzyl-(S)-2-(4-difluoromethoxyphenyl)-3-methyl butylate]

12. Permethrin [3-phenoxybenzyl (1RS, 3RS)-(1RS, 3RS)-(2,2-dichlorovinyl)-2,2-dimethyl cyclopropane carboxylate]

13. Bifenthrin [2-methylbiphenyl-3-yl-methyl (Z)-(1RS, 3RS)-3-(2-chloro-3,3,3-trifluoroprop-1-enyl)-2,2-dimethyl cyclopropane carboxylate]

14. Silafluofen [4-ethoxyphenyl-[3-(3-phenoxy-4-fluorophenyl)propyl](dimethyl silane)]

15. Lesmethrin [5-benzyl-3-furylmethyl di-cis, trans- chrysanthemate]

16. Tefluthrin [2,3,5,6-tetrafluoro-4-methylbenzyl-(1RS)- cis-3-(Z-2-chloro-3,3,3-trifluoroprop-1-enyl)-2,2-dimethyl cyclopropane carboxylate]

17. Acrinathrin [(S)-a-cyano-3-phenoxybenzyl (Z)-(1R, 3S)-2,2-dimethyl-3-[2-(2,2,2-trifluoro-1-trifluoromethyl ethoxycarbonyl) vinyl] cyclopropane carboxylate]

18. Prarethrin [(RS)-2-methyl-4-oxo-3-prop-2-enylcyclopent- 2-enyl (1RS)-cis, trans-2,2-dimethyl-3-(2-methyl prop-1-enyl) cyclopropane carboxylate]

19. Cismethrin [5-benzyl-3-furylmethyl (1R)-trans-2,2- dimethyl-3-(2-methyl prop-1-enyl) cyclopropane carboxylate]

20. d-Phenothrin [3-phenoxybenzyl (1RS)-cis, trans-2,2- dimethyl-3-(2-methyl prop-1-enyl) cyclopropane carboxylate]

21. Deltamethrin [(S)-a-cyano-3-phenoxybenzyl (1R)-cis-3-(2,2-dibromovinyl)-2,2-dimethyl cyclopropane carboxylate]

22. Tetramethrin [cyclohex-1-ene-1,2-dicarboximide methyl (1RS, 3RS, 1RS, 3SR)-2,2-dimethyl-3-(2-methyl prop-1-enyl) cyclopropane carboxylate].

5 The synergistic compositions of the invention are compositions wherein the ratio by weight of the pyrethroid compound to the compound of formula (I) is between 0.1 and 10, preferably between 0.5 and 5.

10 The synergistic compositions of the invention are compositions, which are most useful for termite control, preferably with soil treatment. Thus, the invention is also directed to a method of control of pests, especially of termites which comprises applying an effective amount of the compositions according to the invention, as herein described.

15 The liquid compositions of the invention generally comprise 0.001 to 50 % (all percentages are by weight in the instant specification, unless specifically indicated otherwise) of compound of formula (I), preferably from 0.005 % to 10. The concentrated composition which are those used for storage and commercial purpose comprise generally from 1 to 20 % of this compound of formula (I).

20 When the compositions for soil treatment of the present invention are used for termite control, especially for soil treatment and/or for treating under-floor soil, the quantity of the effective ingredient may be within a range between 0.01 g and 7 g, preferably between 0.1 g and 5 g per square meter. For wood treatment, such as timber or all kind of wood, the method of control of pest, especially of termites, according to the invention is impregnating the wood by 25 mean of a composition as herein before defined.

25 The application of the compositions of the invention to animals is generally made at 0.1 to 100 mg, preferably at 2 to 20 mg per kilogram of body weight of the animal.

30 The termite control composition of the present invention has a highly significant termite control effect on houses damaging termites, for example *Coptotermes formosanus* (Shiraki), *Reticulitermes speratus* (Kolbe), *Odontotermes formosanus* (Shiraki), and *Cryptotermes domesticus* (Haviland), as well as the ability to prevent termites from passing through pesticidally treated materials. The composition may be applied to or adsorbed in building

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materials, furniture, leather, fabrics, vinyl coated articles, electric wires, or cables.

For the efficient use of the termite control composition for material or soil treatment of the present invention, the composition may be dissolved, suspended, mixed, adsorbed, or adhered on an appropriate solid and/or liquid vehicles (this word is used as a synonym of "carrier") according to the formulation generally used, together with auxiliary agents if required. This composition may be formulated into forms suited to the object of use, for example, an oil solution, emulsion, water solution, powder, granules, wettable powder, aerosol, smoking agent, or flowable agent.

Solid vehicles used in the present invention include, for example, clays such as kaolin, bentonite, and acid clay; talc materials such as talc and pyrophyllite; siliceous materials such as diatomaceous earth, silica sand, mica, synthetic silicates, and high dispersion synthetic silicates; and inorganic mineral powders such as pumice and sand. Liquid vehicles include, for example, alcohols such as methanol, ethanol, and ethylene glycol; ketones such as acetone, methyl ethyl ketone, and cyclohexanone; ethers such as ethyl ether, dioxane, tetrahydrofuran, and cellosolve; aliphatic hydrocarbons such as kerosene; aromatic hydrocarbons such as benzene, toluene, xylene, solvent naphtha, cyclohexane, and methyl naphthalene; and halogenated hydrocarbons such as chloroform, carbon tetrachloride, and chlorobenzene. These solid or liquid vehicles may be used alone or in combination.

Auxiliary agents used in the present invention include propellants, surface-active agents, fixing agents, dispersing agents, thickening agents, and bonding agents. Propellants include, for example, liquefied petroleum gas, dimethyl ether, and fluorocarbons. Surface-active agents include, for example, polyoxyethylene alkylaryl ether, polyoxyethylene sorbitane monolaurate, alkylallyl sorbitane monolaurate, alkylbenzene sulfonate, alkyl naphthalene sulfonate, lignin sulfonate, and sulfuric acid ester salts of higher alcohols. These surface-active agents may be used alone or in combination.

Fixing agents, dispersing agents, thickening agents, and bonding agents include, for example, casein, gelatine, starch, carboxymethyl cellulose, alginic acid, agar, polyvinyl alcohol, polyethylene glycol, polysodium acrylate, gum arabic, and xanthane gum, which may be used if required.

188.8.1.5.  
The termite control composition for soil treatment of the present invention may contain co-operating agents such as sinepyrin 500, piperonyl butoxide, and S-421.

5 The termite control composition of the present invention may be used not only for treating the surface or the interior of surrounding soil or under-floor soil for protecting wood such as trees, fences, and railroad ties, or buildings such as houses, warehouses, and industrial plants, but also in timber products such as plywood and furniture, wood products such as particle boards and half boards, and vinyl products such as coated wires and sheets.

10 The present invention also includes the aspects for preventive uses in places where the breeding of termites is expected as well as the above aspects.

Emulsifying agents which may be used are one or more of those selected from non-ionic or anionic emulsifying agents. Examples of non-ionic emulsifying agents which may be mentioned include  
15 polyoxyethylenealkylphenylether, polyoxyethylenealkylether, polyethyleneglycol fatty ester, sorbitan fatty ester, polyoxyethylene sorbitan fatty ester, polyoxyethylenesorbitol fatty ester, polyoxyethylenopolyoxypropylenealkylether. Examples of anionic emulsifying agents which may be mentioned include alkyl sulphates, polyoxyethylenealkylether sulphates,  
20 sulfosuccinates, taurine derivatives, sarcosine derivatives, phosphoric esters, alkylbenzenesulfonates and the like. A mixture consisting of polyoxyethylenestryrlphenylether and calcium alkylbenzenesulfonate is preferred. These emulsifying agents may be used in an amount of 5 to 20 weight parts per 100 weight parts of the composition of the present invention.

25 Compositions of the present invention may be prepared by any of conventional procedures suitable for emulsifiable concentrates.

The present invention is illustrated by the following examples, comparative examples and experimental examples, but is not limited to the details thereof.

30

#### EXAMPLES

Typical embodiments and test examples of the present invention will be shown below, but the present invention is not limited to these embodiments.

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In the description of these embodiments, the term "part(s)" means part(s) by weight. The test method of embodiments was in accordance with Japan Wood Preservation Association Standards No. 13, 1987, "Standards for Testing Methods of Termite Controlling Effects and Performance of Termite Controlling Agents for Soil Treatment (I)."

## 5 Embodiment 1

Compound A	8.00 parts
Bifenthrin	2.00 parts
Propylene glycol	5.00 parts
Anionic surface-active agent	1.00 part
Non-ionic surface-active agent	5.00 parts
Xanthane gum	0.25 parts
Silicone defoaming agent	0.50 parts
Water	78.25 parts

10 The above materials are uniformly mixed and suspended to form a flowable agent.

## 15 Embodiment 2

Compound A	1.00 part
Bifenthrin	0.40 parts
Propylene glycol	5.00 parts
Anionic surface-active agent	1.00 part
Non-ionic surface-active agent	5.00 parts
Xanthane gum	0.40 parts
Silicone defoaming agent	0.50 parts
Water	86.70 parts

20 The above materials are uniformly mixed and suspended to form a flowable agent.

## 25 Embodiment 3

Compound A	4.00 parts
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Permethrin	20.00 parts
Anionic surface-active agent	10.00 parts
N-methyl-2-pyrrolidone	10.00 parts
Aromatic solvent	56.00 parts

5

The above materials are uniformly dissolved to form an emulsion.

**Test example 1**

A testing apparatus was used in which two glass cylinders (each about 5 cm in diameter and about 12 cm in height) are connected at about 2 cm from the bottom with a glass tube about 1.5 cm in diameter and about 10 cm in length (graduated at 5-mm intervals for 5 cm at the center). The one glass cylinder was filled with about 60 g of non- treated soil adjusted to a moisture content of about 25%, and the other glass cylinder was filled with about 0.29 g of filter paper (5.5 mm in diameter). The glass tube was filled, at a thickness of 1 cm, with test soil prepared by mixing 2.4 g of non- treated sandy soil which had passed through a 20-mesh screen and had been dried at 60°C until a constant weight had been achieved, with 0.45 g of the solution of the test composition of a predetermined concentration, and allowing the mixture to stand for 3 weeks in a room without weather resistance treatment. The glass tube was connected to the glass cylinders.

In the glass cylinder filled with non treated soil, placed were 200 workers and 20 soldiers of *Coptotermes formosanus Shiraki*, and the testing apparatus was kept at a constant temperature chamber controlled at a temperature of 28°C, and a relative humidity of 70% or higher.

The bored depth (millimetres = mm), damage by eating, and the termite control effect were determined 14 days after insects were put in place, and the effect was evaluated in accordance with the following criteria:

**Damage by eating:**

- 30      +      10% or less compared with non treatment
- + +      11-50% or less compared with non treatment
- + + +      51% or more compared with non treatment

**Termite control effect:**

- A      100% lethal

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- B 80-99% lethal
- C 50-79% lethal
- D 49% lethal or less

5 Results are shown in Table 1 :

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	Test composition	Concentration (%)	Bored depth (mm) 14 DAT	Damage by eating 14 DAT	Termite control effect 14 days later
Em-bodi-ments	compound A + bifenthrin	0.01 + 0.01	3	None	A
		0.01 + 0.005	2	None	A
		0.005 + 0.01	3	None	A
		0.005 + 0.005	7	None	A
		0.0025 + 0.01	5	None	A
		0.0025 + 0.005	9	None	A
		0.00125 + 0.01	7	None	A
		0.00125 + 0.005	9	None	A
Em-bodi-ments	Compound A + fenvalerate	0.02 + 0.05	2	None	A
		0.005 + 0.05	6	None	A
		0.02 + 0.01	1	None	A
		0.005 + 0.01	3	None	A
	Compound A + cypermethrin	0.02 + 0.025	0	None	A
		0.005 + 0.025	0	None	A
		0.02 + 0.005	2	None	A
		0.005 + 0.005	3	None	A
	Compound A + permethrin	0.02 + 0.1	0	None	A
		0.005 + 0.1	6	None	A
		0.02 + 0.02	8	None	A
	Compound A + tralomethrin	0.02 + 0.01	6	None	A
		0.005 + 0.01	4	None	A
		0.02 + 0.002	2	None	A
		0.005 + 0.002	8	None	A
	Compound A + fluvalinate	0.02 + 0.05	8	None	A
	Compound A + cyfluthrin	0.02 + 0.025	6	None	A
		0.005 + 0.025	6	None	A
		0.02 + 0.005	6	None	A

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Compound A	0.02	+	0.1	2	None	A
+ ethofenprox	0.005	+	0.1	8	None	A
	0.02	+	0.02	4	None	A
	0.005 + 0.02			7	None	A
Compound A	0.02	+	0.05	6	None	A
+ silafluofen	0.005	+	0.05	5	None	A
	0.02 + 0.01			7	None	

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	Test composition	Concentration (%)	Bored depth (mm) 14 days later	Damage by eating 14 days later	Termite control effect 14 days later
Comparative examples	Compound A	0.02	>	10 +	A
		0.01	>	10 +	A
		0.005	> 10	++	A
	Bifenthrin	0.01	>	10 +++	D
		0.005	> 10	+++	D
	Fenvalerate	0.05	>	10 +	A
		0.01	> 10	+++	D
	Cypermethrin	0.025	>	10 None	D
		0.005	> 10	+++	D
	Permethrin	0.1	>	10 None	D
		0.02	> 10	+++	D
	Tralomethrin	0.01	>	10 +++	D
		0.002	> 10	+++	D
	Fluvalinate	0.05	> 10	+++	D
	Cyfluthrin	0.025	>	10 None	D
		0.005	> 10	+++	D
	Ethofenprox	0.1	>	10 None	D
		0.02	> 10	+++	D
	Silafluofen	0.05	>	10 +	A
		0.01	> 10	+++	D
	Non-treatment		> 10	+++	D

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**Claims:**

1) A pesticidal composition which comprises, as effective ingredients, a pyrethroid and a compound of formula (I) 1-[4-R<sup>1</sup> 2,6-(R<sup>2</sup>)<sub>p</sub> phenyl] 3-cyano 4-[R<sup>4</sup>-S(O)<sub>n</sub>] 5-R<sup>5</sup> pyrazole (I) wherein R<sup>1</sup> is halogen, lower haloalkyl, lower haloalkoxy or SF<sub>5</sub> (lower being an integer from 1 to 4); R<sup>2</sup> is halogen, the various R<sup>2</sup> being identical or different; R<sup>4</sup> is halogen, lower alkyl or haloalkyl; R<sup>5</sup> is halogen, lower alkyl or amino; n is 0 or 1 or 2; p is 2 and;

wherein the ratio by weight of the pyrethroid compound to the compound of formula (I) is between 0.1 and 10.

2) A composition according to claim 1 wherein the ratio by weight of the pyrethroid compound to the compound of formula (I) is between 0.5 and 5.

3) A composition according to claim 1 or 2 which comprises between 0.001% to 50% of the compound of formula (I).

4) A composition according to any one of claims 1 to 3 which comprises between 0.005% to 10% of the compound of formula (I).

5) A composition according to any one of claims 1 to 4 which comprises between 1 and 20% of the compound of formula (I).

6) A composition according to any one of claims 1 to 5 for use against termites.

7) A composition according to any one of claims 1 to 6 wherein the compound of formula (I) is 5-amino-3-cyano-1-(2,6-dichloro-4-trifluoromethylphenyl)-4-trifluoromethylsulphanyl pyrazole.

- 8) A composition according to any one of claims 1 to 7 wherein the pyrethroid compound is other than cyfluthrin, cypermethrin, deltamethrin, fenpropathrin, fenvalerate, and permethrin.
- 9) A composition according to any one of claims 1 to 7 wherein the pyrethroid compound is selected from a group consisting of allethrin, ethofenprox, cycloprothrin, cyhalothrin, cyfluthrin, cypermethrin, pyrethrin, tralomethrin, fenvalerate, fenpropathrin, flucythrinate, permethrin, bifenthrin, silafluofen, lesmethrin, tefluthrin, acrinathrin, prarethrin, cismethrin d-phenothrin, deltamethrin, and tetramethrin.
- 10) A method for controlling and preventing termites from passing through a pesticidally treated layer of soil or material whereby the said layer is treated by means of an effective amount of a composition according to any one of claims 1 to 9.
- 11) A method for controlling termites by soil treatment using 0.1 g/m<sup>2</sup> to 5 g/m<sup>2</sup> of a composition according to any one of claims 1 to 9.
- 12) A method for controlling pests of animals wherein the animal is treated by means of a composition according to any one of claims 1 to 9, the rate of application being between 0.1 and 100 mg per kilo of body weight of the animal.
- 13) The method according to claim 12, wherein the rate of application is between 2 and 20 mg per kilo of body weight of the animal.



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(54) Title: SYNERGISTIC TERMITICIDAL COMPOSITION OF PYRETHROID AND N-PHENYL-PYRAZOLE			
(57) Abstract			
<p>A termite control composition for soil treatment containing 3-cyano-1-(substituted phenyl) pyrazole derivative and a pyrethroid compound as effective ingredients, and a method of controlling pests such as termites using said composition. The termite control composition is improved for soil treatment as well as for the ability to prevent termites from passing through the pesticidally treated layer.</p>			